

CLAIMS

- 1. A nano horn carrier characterized by carrying a part or all of one or two or more carbon nano horn aggregates on a fixing material.**
- 2. The nano horn carrier of claim 1, wherein the fixing material is any one of organic polymer, metal, alloy, and inorganic matter.**
- 3. The nano horn carrier of claim 1 or 2, wherein the fixing material is a material softened by heat of 1500°C or less.**
- 4. The nano horn carrier of claim 3, wherein the fixing material is a metal or alloy of which melting point is 1500°C or less.**
- 5. The nano horn carrier of claim 1 or 2, wherein the fixing material is a material forming a carbide at 1500°C or less.**
- 6. A nano horn carrier, wherein two or more carbon nano horn aggregates are bonded and mutually carried.**
- 7. The nano horn carrier of any one of claims 1 to 6, wherein a part or all of carried carbon nano horn aggregates are fixed on a base material.**
- 8. The nano horn carrier of claim 7, wherein carbon nano horn aggregates are fixed on a base material by a fixing material.**
- 9. The nano horn carrier of claim 7 or 8, wherein the base material has an arbitrary shape.**
- 10. The nano horn carrier of any one of claims 7 to 9, wherein the base material is any one of glass, ceramics, metal, alloy, semiconductor, and organic matter.**
- 11. The nano horn carrier of any one of claims 1 to 10, wherein the shape is variable.**
- 12. The nano horn carrier of any one of claims 1 to 11, wherein the tip of carbon nano horn is projecting from the surface of the fixing material.**
- 13. A manufacturing method of nano horn carrier characterized by dispersing carbon nano horn aggregates in a dispersion liquid containing a fixing**

member, and supplying this dispersion liquid on a base material to solidify.

14. A manufacturing method of nano horn carrier characterized by dispersing carbon nano horn aggregates in a dispersion liquid, supplying this dispersion liquid on a base material, removing only the dispersion liquid to dispose carbon nano horn aggregates, and covering a part or all of the carbon nano horn aggregates with a fixing member to carry on the fixing member.

15. A manufacturing method of nano horn carrier characterized by dispersing carbon nano horn aggregates in a dispersion liquid, supplying this dispersion liquid on a base material in which a fixing material layer is formed preliminarily, removing only the dispersion liquid to dispose carbon nano horn aggregates, and pressing the carbon nano horn aggregates from above to the fixing material layer in a softened state to carry on the fixing member.

16. A manufacturing method of nano horn carrier characterized by dispersing carbon nano horn aggregates in a dispersion liquid, supplying this dispersion liquid on a base material, removing only the dispersion liquid to dispose carbon nano horn aggregates, and heating to 1200 to 2000°C to bond mutually the carbon nano horn aggregates and carry on each other.

17. The manufacturing method of nano horn carrier of any one of claims 13 to 16, wherein the base material has an arbitrary shape.

18. The manufacturing method of nano horn carrier of any one of claims 13 to 17, wherein the base material is any one of glass, ceramics, metal, alloy, semiconductor, and organic matter.

19. The manufacturing method of nano horn carrier of any one of claims 13 to 18, wherein the base material is composed of a chemically or thermally unstable material.

20. The manufacturing method of nano horn carrier of any one of claims 13 to 19, wherein the base material is removed.

21. The manufacturing method of nano horn carrier of claim 20, wherein

the base material is removed by a solvent.

22. The manufacturing method of nano horn carrier of claim 20, wherein the base material is removed by heating.

23. The manufacturing method of nano horn carrier of any one of claims 13 to 22, wherein the fixing material is any one of organic polymer, metal, alloy, and inorganic matter.

24. The manufacturing method of nano horn carrier of any one of claims 13 to 23, wherein the fixing material is a material softened by heat of 1500°C or less.

25. The manufacturing method of nano horn carrier of claim 24, wherein the fixing material is a metal or alloy of which melting point is 1500°C or less.

26. The manufacturing method of nano horn carrier of any one of claims 13 to 23, wherein the fixing material is a material forming a carbide at 1500°C or less.

27. The manufacturing method of nano horn carrier of any one of claims 13 to 26, wherein a part of the fixing material (2) covering the carbon nano horn aggregates is selectively removed.

28. The manufacturing method of nano horn carrier of claim 27, wherein the fixing material is selectively removed by a solvent.

29. The manufacturing method of nano horn carrier of claim 27, wherein the fixing material is selectively removed by oxygen plasma etching.

30. The manufacturing method of nano horn carrier of claim 27, wherein the fixing material is selectively removed by heating in an oxygen atmosphere.